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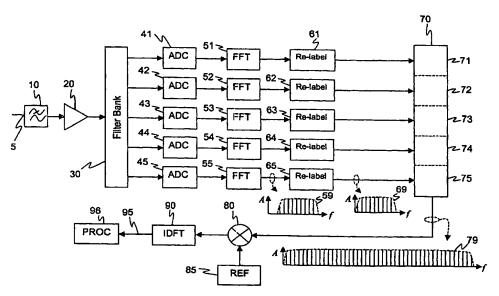
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(54) Title: ULTRA-WIDEBAND SIGNAL RECEIVER USING FREQUENCY SUB-BANDS



(57) Abstract: A signal receiver suitable for digitising a signal having a wide bandwidth comprises a filter bank (30) for dividing a received signal into a plurality of frequency sub-bands, means (41-45) for digitising each sub-band using a low sample rate, means (51) for transforming each digitised sub-band signals into the frequency domain, means (61 - 65, 70) for concatenating the frequency domain sub-band signals to reconstruct the spectrum of the received signal. For a signal that occupies only one sub-band at any one instant, for example a frequency hopping signal or a chirp signal, a single analogue-to-digital converter may be used to digitise each sub-band in turn, and the transformation into the frequency domain may be performed for each sub-band in turn.

